

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\
 Data File : BF086159.D
 Acq On : 8 Apr 2016 5:06
 Operator : UM/SJ
 Sample : H2310-04
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB1-0-6.0

Manual Integrations
 APPROVED

Sohil
 4/8/2016 6:09:39 PM

Quant Time: Apr 08 05:37:01 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	100942	20.00	ng	-0.03
21) Naphthalene-d8	8.02	136	408920	20.00	ng	-0.05
38) Acenaphthene-d10	9.77	164	141095	20.00	ng	-0.05
63) Phenanthrene-d10	11.25	188	229959	20.00	ng	-0.05
75) Chrysene-d12	13.89	240	213149	20.00	ng	-0.03
86) Perylene-d12	15.31	264	205936	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	534593	90.53	ng	-0.03
7) Phenol-d6	6.38	99	653107	87.07	ng	-0.03
23) Nitrobenzene-d5	7.30	82	373067	53.80	ng	-0.05
41) 2,4,6-Tribromophenol	10.57	330	96914	73.18	ng	-0.03
44) 2-Fluorobiphenyl	9.09	172	579566	68.30	ng	-0.05
78) Terphenyl-d14	12.84	244	475478	52.44	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	8.04	128	709248	34.48	ng	99
37) 2-Methylnaphthalene	8.74	142	163100	12.14	ng	98
45) 1,1'-Biphenyl	9.20	154	55725	4.58	ng	94
48) Acenaphthylene	9.63	152	137953	9.77	ng	98
49) Dimethylphthalate	9.49	163	68282	6.53	ng	99
51) Acenaphthene	9.80	154	158997	18.92	ng	99
54) Dibenzofuran	9.97	168	200547	18.07	ng	95
57) Fluorene	10.32	166	216834	22.88	ng	98
70) Phenanthrene	11.29	178	1457426	116.17	ng	99
71) Anthracene	11.33	178	449841	34.23	ng	99
72) Carbazole	11.49	167	193047	17.09	ng	98
74) Fluoranthene	12.48	202	1428396	109.47	ng	92
77) Pvrene	12.71	202	1223260	81.44	ng	99
80) Benzo(a)anthracene	13.89	228	581927m	46.32	ng	
82) Chrysene	13.93	228	491059	40.57	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	265424	27.03	ng	99
87) Benzo(b)fluoranthene	14.91	252	635971m	49.09	ng	
88) Benzo(k)fluoranthene	14.92	252	274978m	23.97	ng	
89) Benzo(a)pvrene	15.25	252	431673	37.61	ng	96
90) Dibenzo(a,h)anthracene	16.66	278	66927	7.25	ng	# 87
91) Benzo(g,h,i)perylene	17.07	276	247947	27.74	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

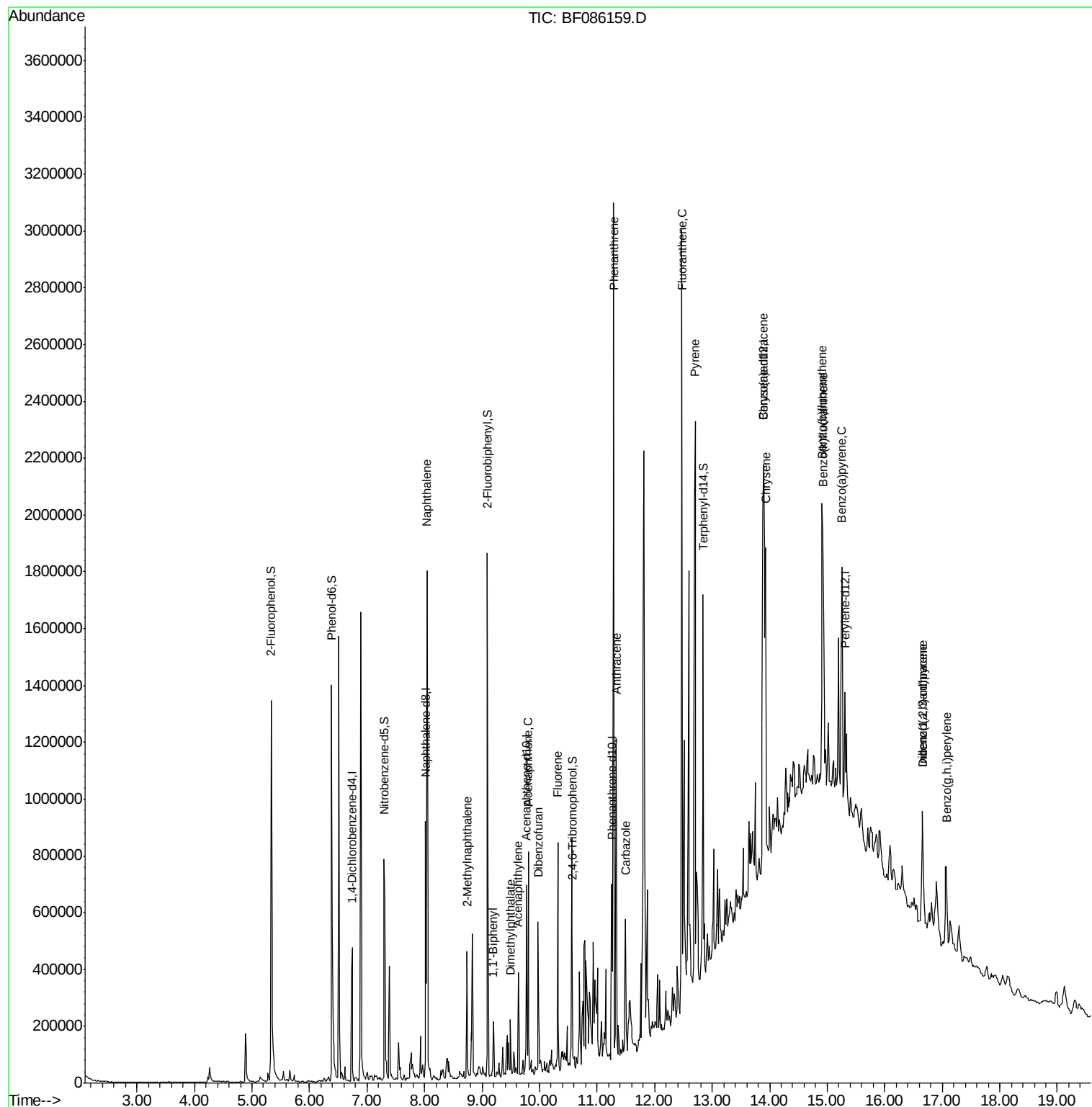
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\
Data File : BF086159.D
Acq On : 8 Apr 2016 5:06
Operator : UM/SJ
Sample : H2310-04
Misc :
ALS Vial : 36 Sample Multiplier: 1

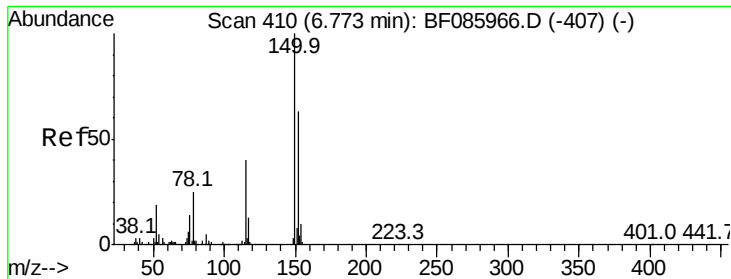
Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Manual Integrations
APPROVED

Sohil
4/8/2016 6:09:39 PM

Quant Time: Apr 08 05:37:01 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 01 23:17:06 2016
Response via : Initial Calibration





#1

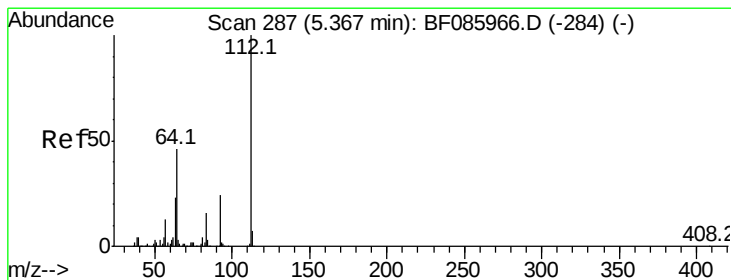
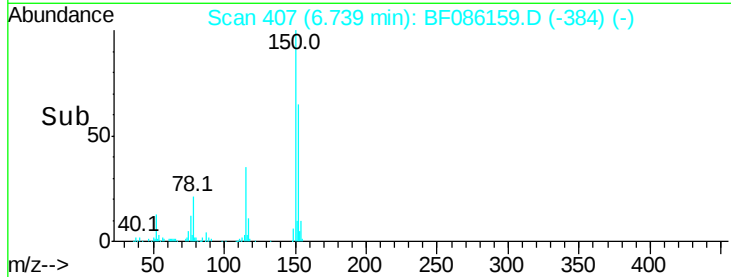
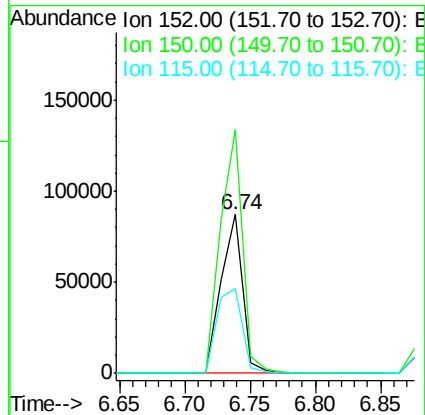
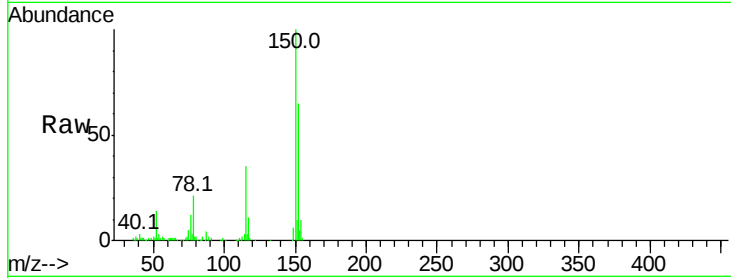
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.74 min Scan# 407
Delta R.T. -0.03 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.4	124.2	186.2
115	53.8	47.0	70.6

Manual Integrations
APPROVED

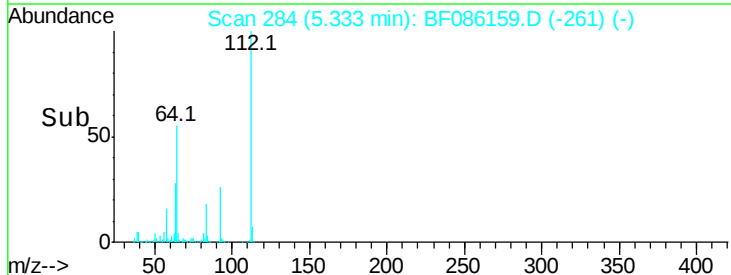
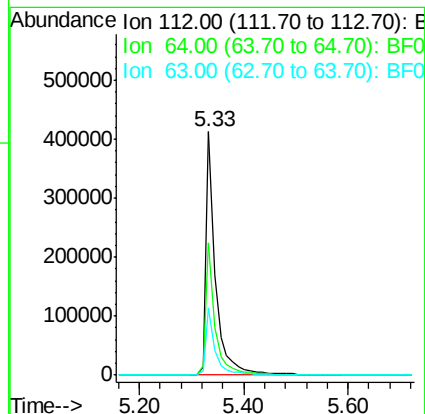
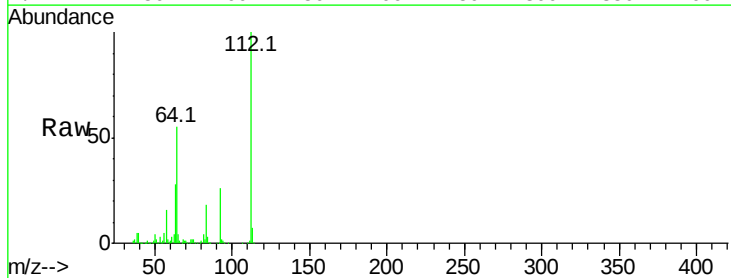
Sohil
4/8/2016 6:09:39 PM

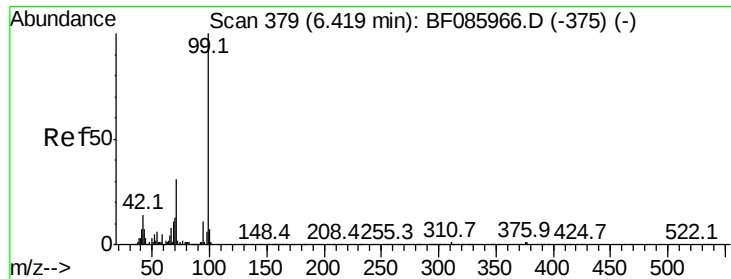


#5

2-Fluorophenol
Concen: 90.53 ng
RT: 5.33 min Scan# 284
Delta R.T. -0.03 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	39.9	59.9
63	27.7	20.2	30.2





#7

Phenol-d6

Concen: 87.07 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.03 min

Lab File: BF086159.D

Acq: 8 Apr 2016 5:06

Instrument :

BNA_F

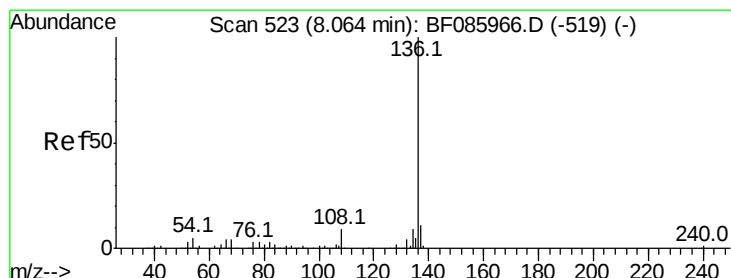
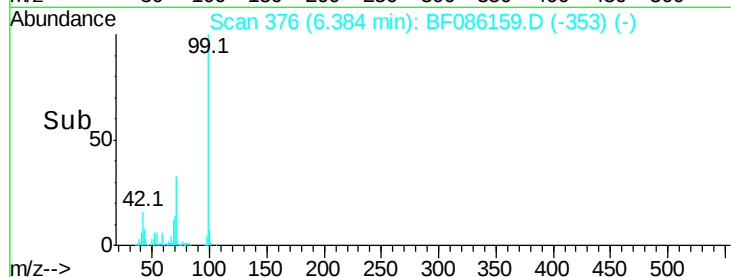
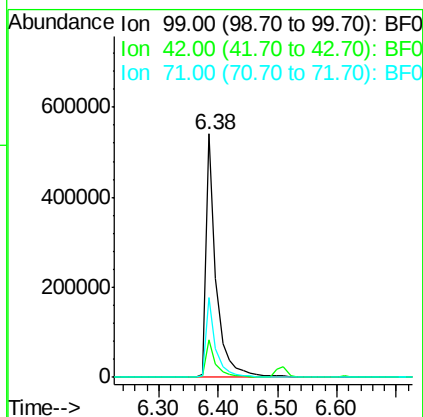
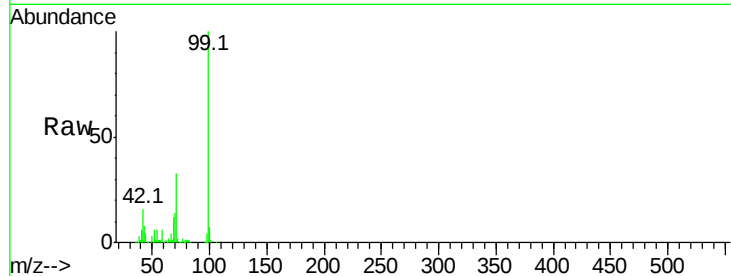
ClientSampleId :

PEDBR-SB1-0-6.0

Tot Ion:	99	Resp:	653107
Ion Ratio	Lower	Upper	
99	100		
42	15.6	11.1	16.7
71	33.0	24.9	37.3

Manual Integrations
APPROVED

Sohil
4/8/2016 6:09:39 PM



#21

Naphthalene-d8

Concen: 20.00 ng

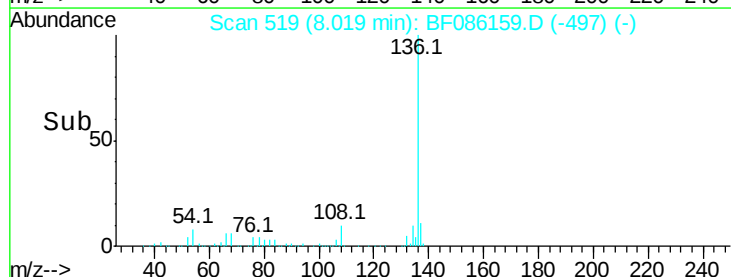
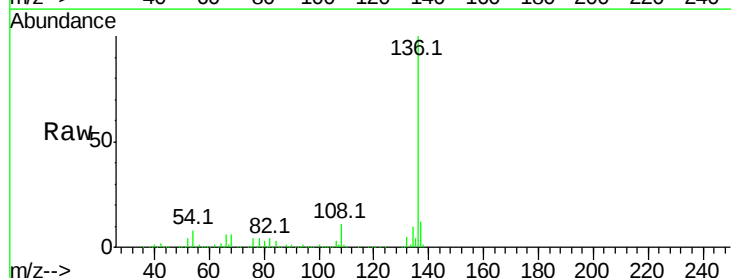
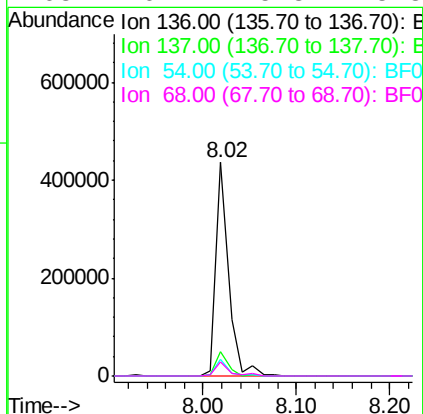
RT: 8.02 min Scan# 519

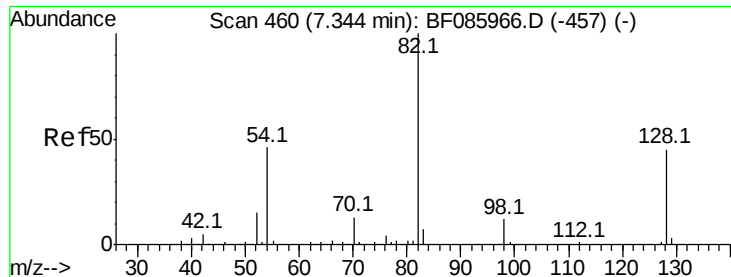
Delta R.T. -0.05 min

Lab File: BF086159.D

Acq: 8 Apr 2016 5:06

Tgt Ion:	136	Resp:	408920
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	7.8	7.4	11.0
68	6.4	5.8	8.8





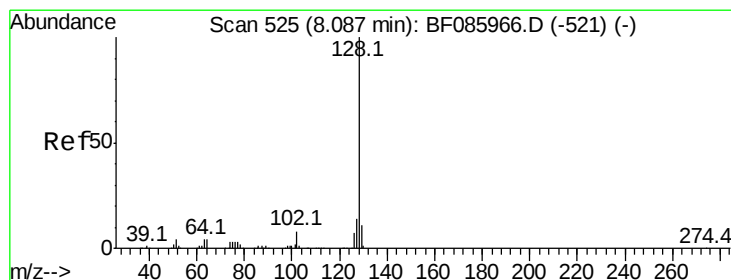
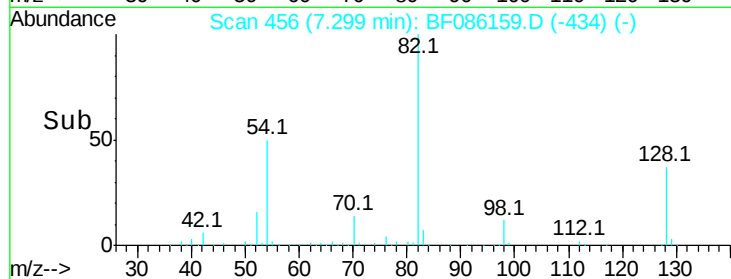
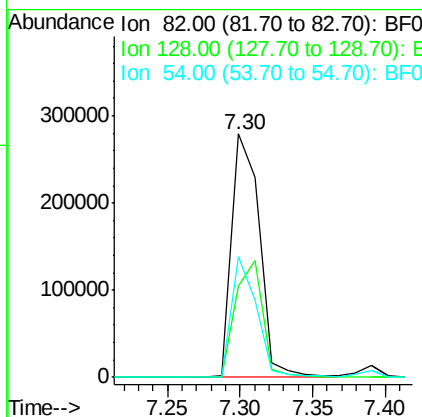
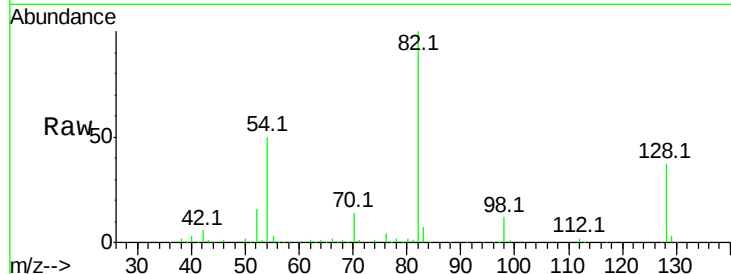
#23
 Nitrobenzene-d5
 Concen: 53.80 ng
 RT: 7.30 min Scan# 456
 Delta R.T. -0.05 min
 Lab File: BF086159.D
 Acq: 8 Apr 2016 5:06

Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB1-0-6.0

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.4	41.8	62.8#
54	49.6	33.4	50.0

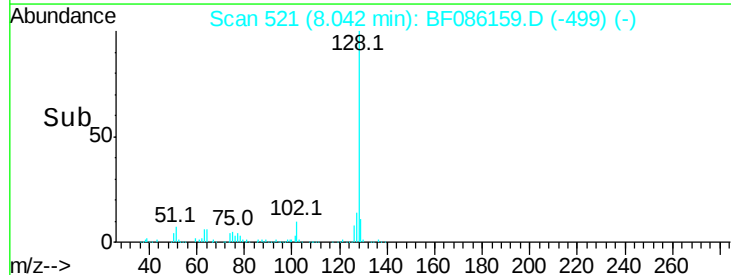
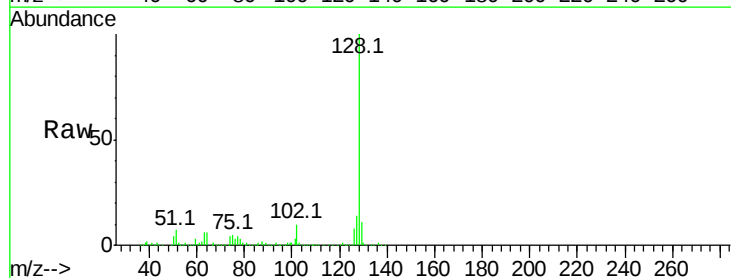
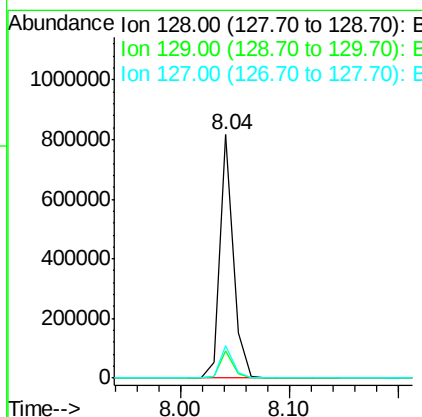
Manual Integrations
 APPROVED

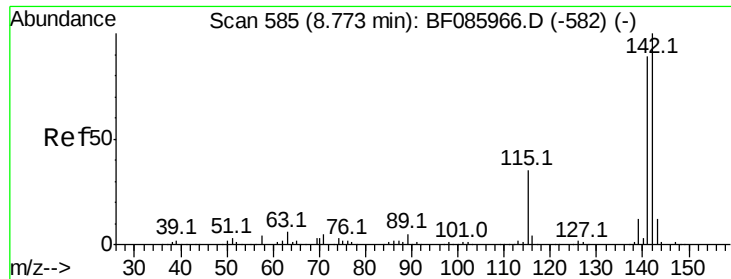
Sohil
 4/8/2016 6:09:39 PM



#31
 Naphthalene
 Concen: 34.48 ng
 RT: 8.04 min Scan# 521
 Delta R.T. -0.05 min
 Lab File: BF086159.D
 Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.4	14.0
127	13.5	11.0	16.6





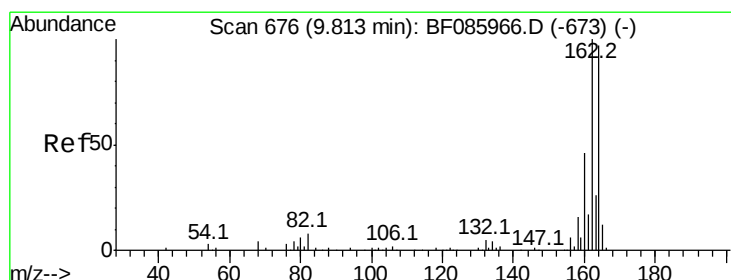
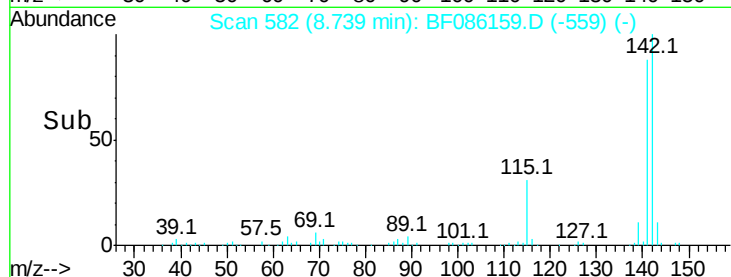
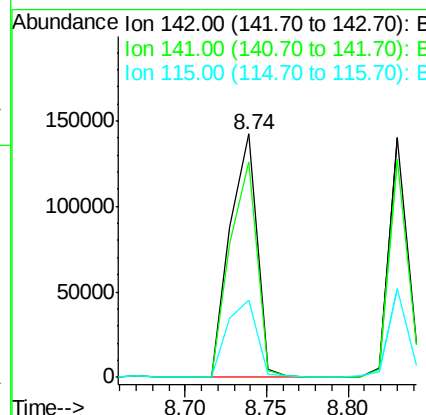
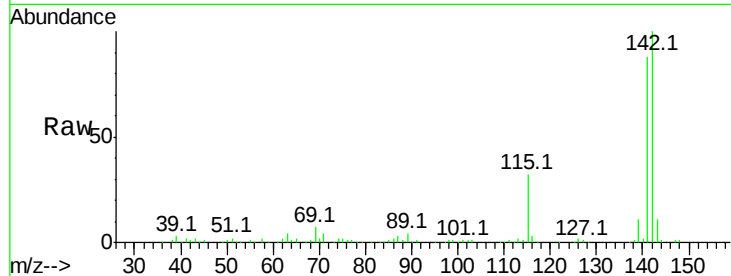
#37
2-Methylnaphthalene
Concen: 12.14 ng
RT: 8.74 min Scan# 582
Delta R.T. -0.03 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Tot Ion	Ratio	Resp	Lower	Upper
142	100	163100		
141	88.4		71.6	107.4
115	31.6		26.8	40.2

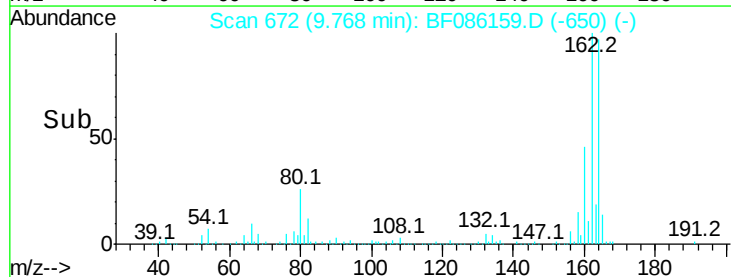
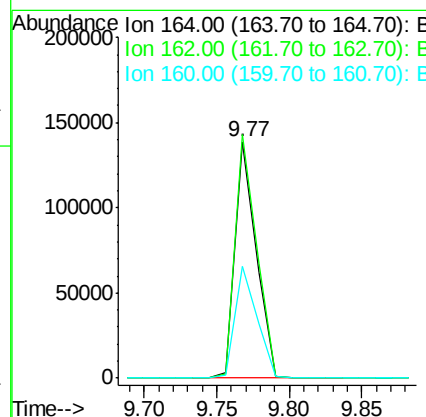
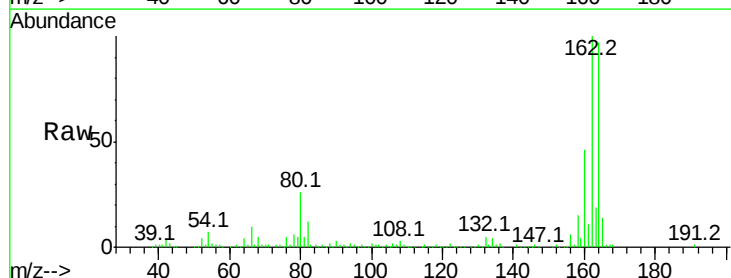
Manual Integrations
APPROVED

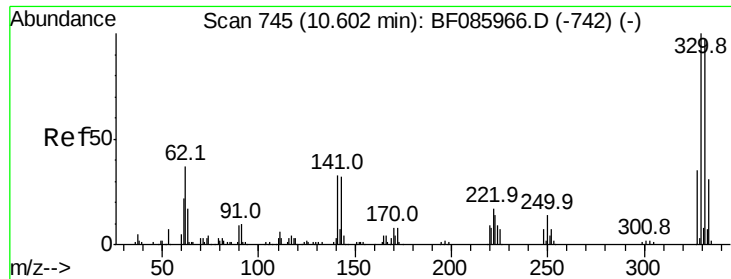
Sohil
4/8/2016 6:09:39 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.77 min Scan# 672
Delta R.T. -0.05 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	141095		
162	102.9		82.1	123.1
160	47.3		37.4	56.2





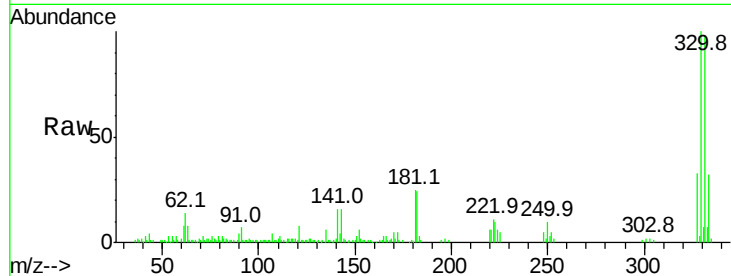
#41
 2,4,6-Tribromophenol
 Concen: 73.18 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.03 min
 Lab File: BF086159.D
 Acq: 8 Apr 2016 5:06

Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB1-0-6.0

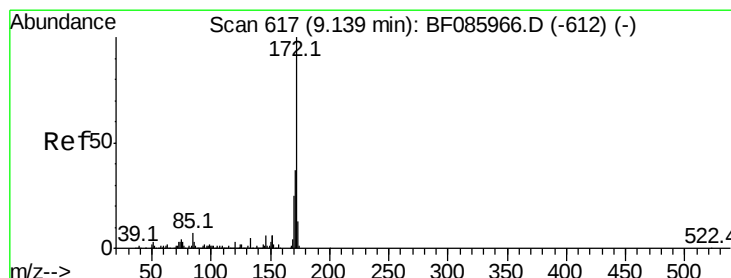
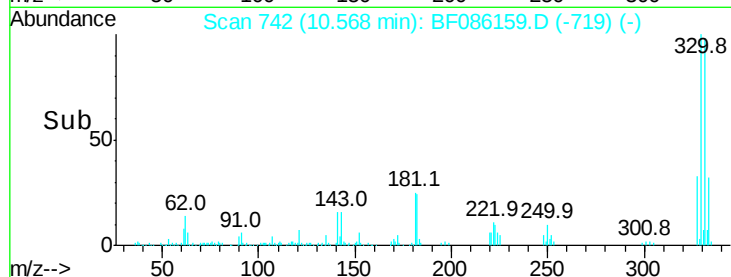
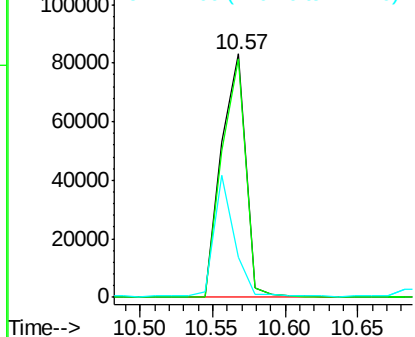
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.2	117.2
141	42.0	31.5	47.3

Manual Integrations
 APPROVED

Sohil
 4/8/2016 6:09:39 PM

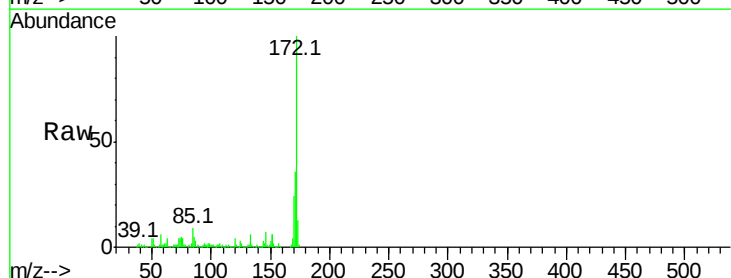


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

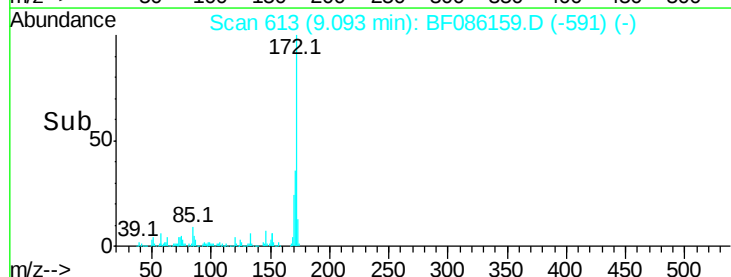
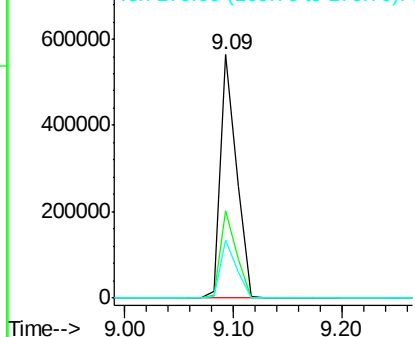


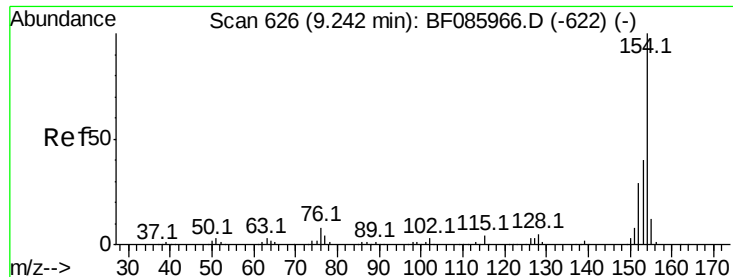
#44
 2-Fluorobiphenyl
 Concen: 68.30 ng
 RT: 9.09 min Scan# 613
 Delta R.T. -0.05 min
 Lab File: BF086159.D
 Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.4	44.2
170	24.0	19.8	29.6



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





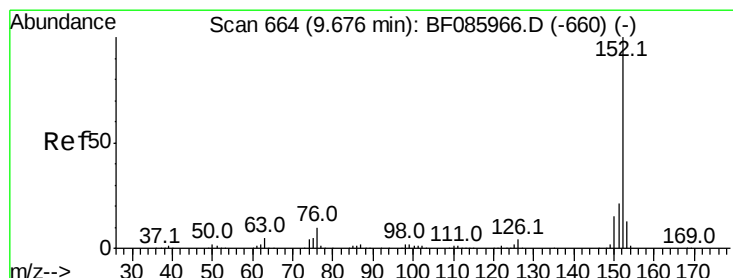
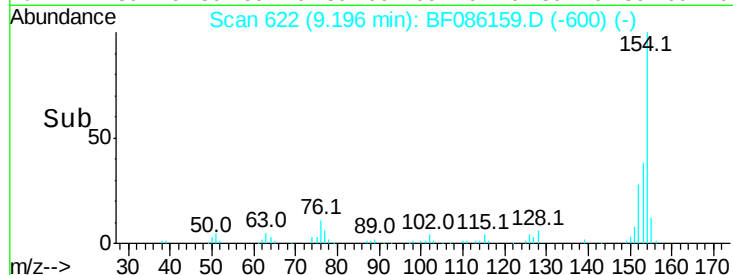
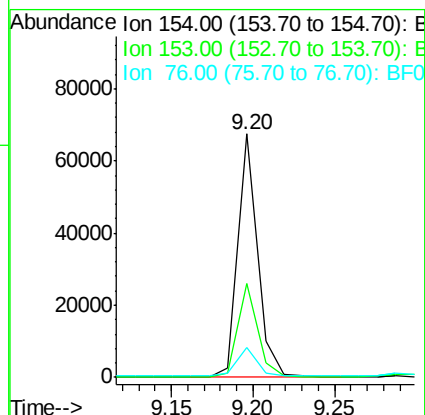
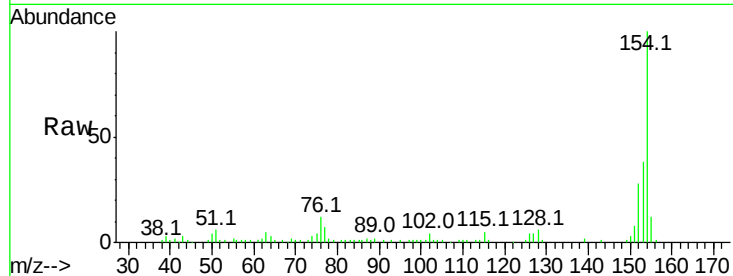
#45
1,1'-Biphenyl
Concen: 4.58 ng
RT: 9.20 min Scan# 622
Delta R.T. -0.05 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Tot Ion:	154	Resp:	55725
Ion Ratio	Lower	Upper	
154	100		
153	38.4	20.8	60.8
76	12.2	0.0	36.7

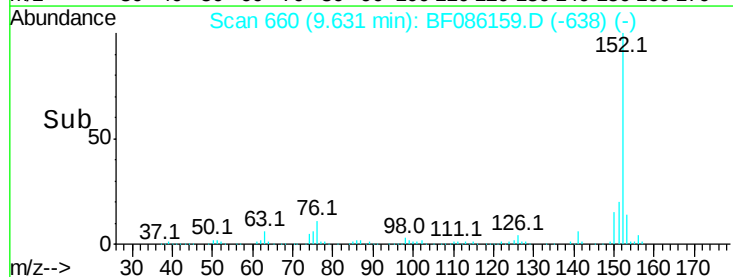
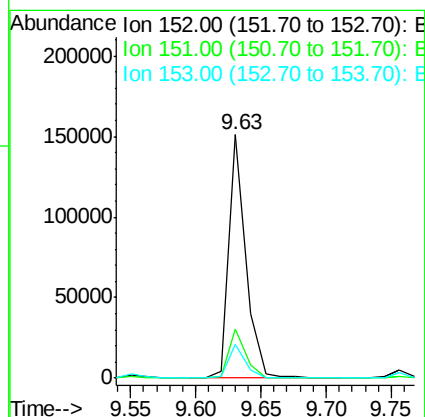
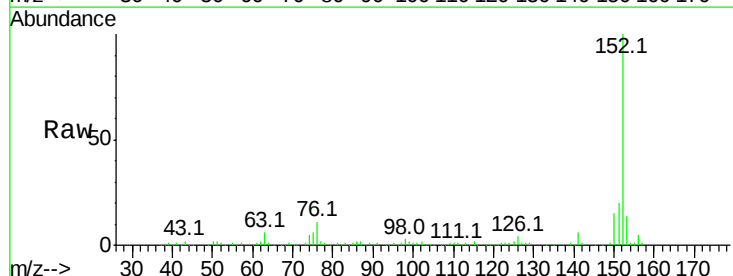
Manual Integrations
APPROVED

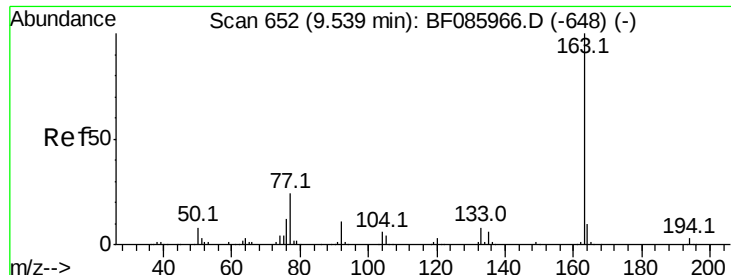
Sohil
4/8/2016 6:09:39 PM



#48
Acenaphthylene
Concen: 9.77 ng
RT: 9.63 min Scan# 660
Delta R.T. -0.05 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Tgt Ion:	152	Resp:	137953
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.8	25.2
153	13.8	10.9	16.3





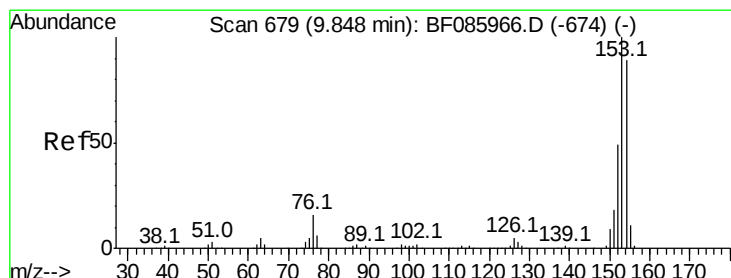
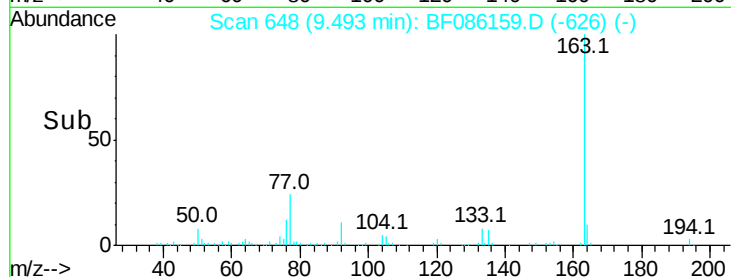
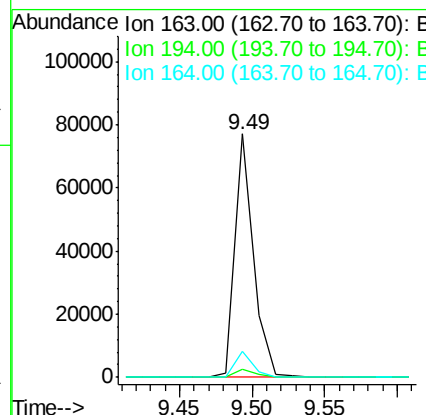
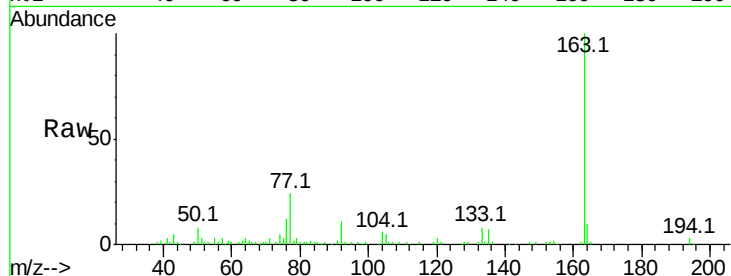
#49
Dimethylphthalate
Concen: 6.53 ng
RT: 9.49 min Scan# 648
Delta R.T. -0.05 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Tot Ion	Ratio	Resp	Lower	Upper
163	100	68282		
194	3.1		2.9	4.3
164	10.5		8.3	12.5

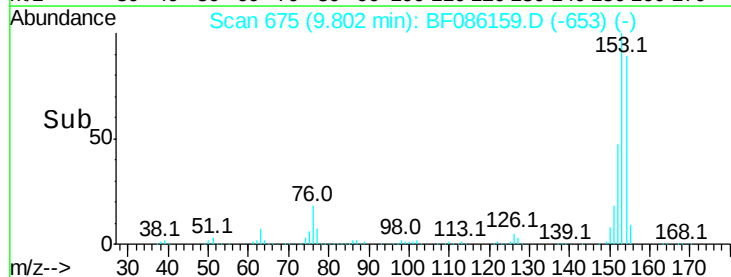
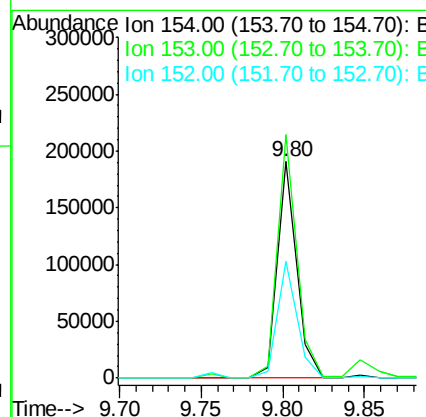
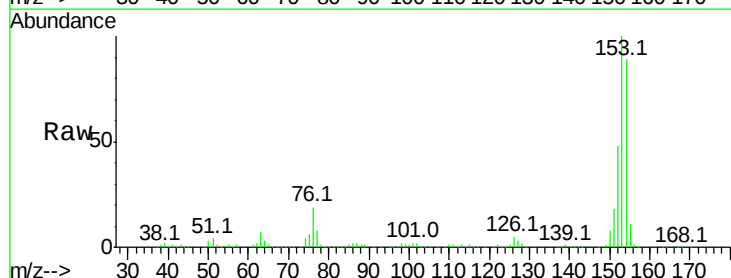
Manual Integrations
APPROVED

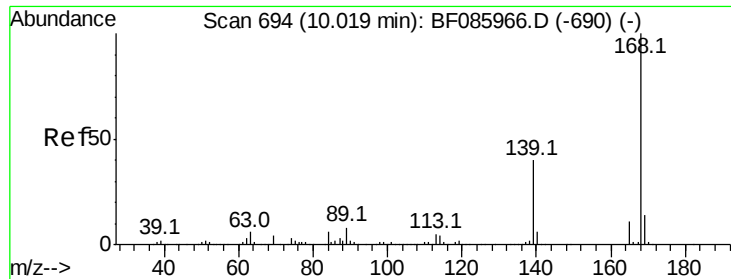
Sohil
4/8/2016 6:09:39 PM



#51
Acenaphthene
Concen: 18.92 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.05 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	158997		
153	112.5		90.1	135.1
152	54.0		44.2	66.2





#54

Dibenzofuran

Concen: 18.07 ng

RT: 9.97 min Scan# 690

Delta R.T. -0.05 min

Lab File: BF086159.D

Acq: 8 Apr 2016 5:06

Instrument :

BNA_F

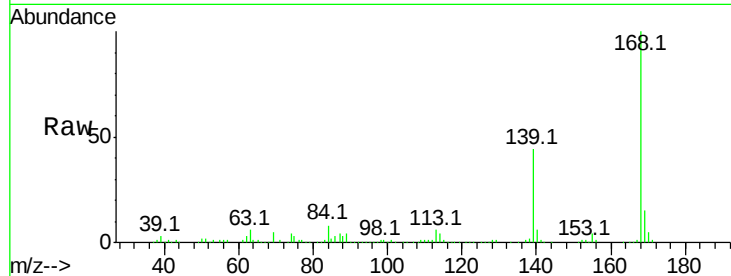
ClientSampleId :

PEDBR-SB1-0-6.0

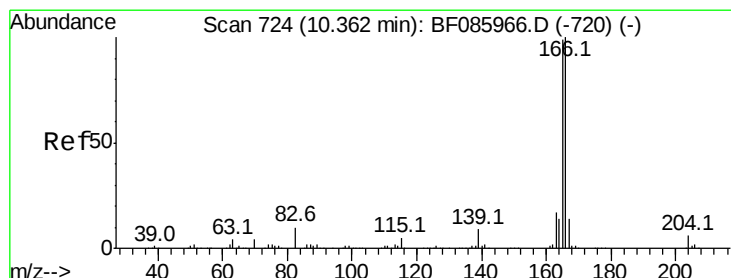
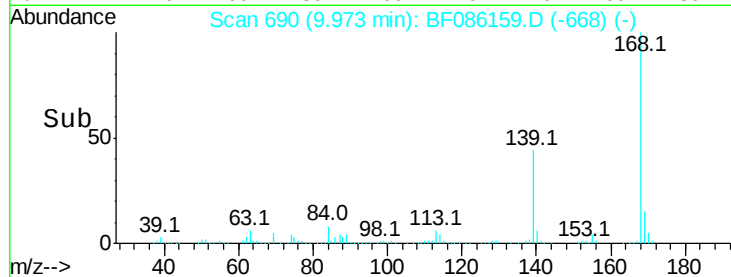
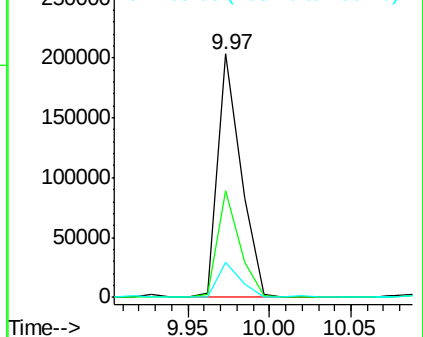
Tot Ion:168	Resp:	200547
Ion Ratio	Lower	Upper
168	100	
139	44.1	31.9 47.9
169	14.6	11.0 16.6

Manual Integrations
APPROVED

Sohil
4/8/2016 6:09:39 PM



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 22.88 ng

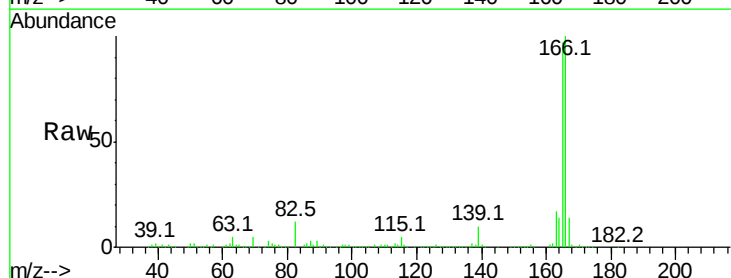
RT: 10.32 min Scan# 720

Delta R.T. -0.05 min

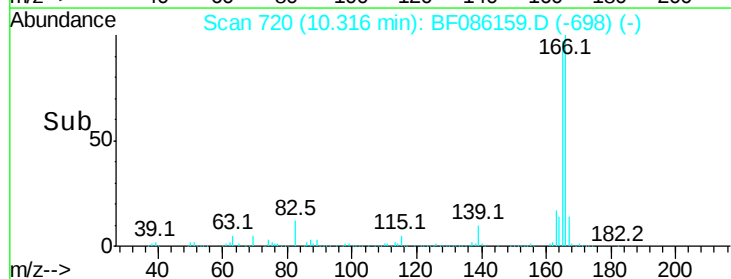
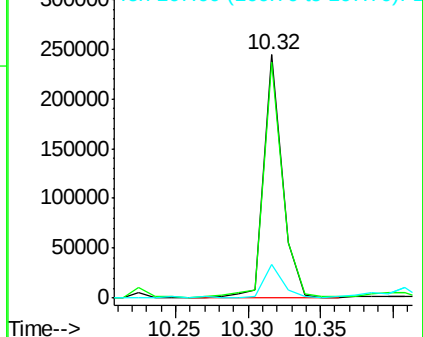
Lab File: BF086159.D

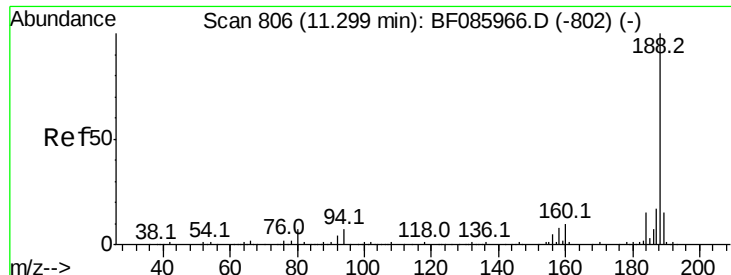
Acq: 8 Apr 2016 5:06

Tgt Ion:166	Resp:	216834
Ion Ratio	Lower	Upper
166	100	
165	97.0	79.4 119.0
167	13.7	11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





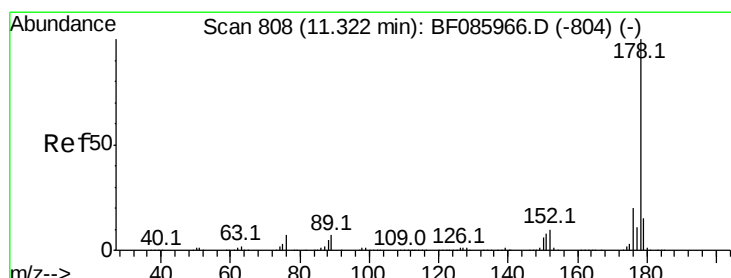
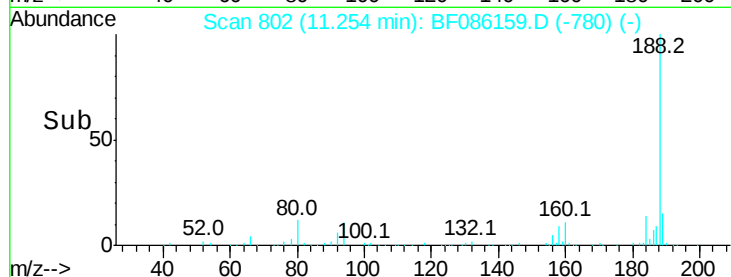
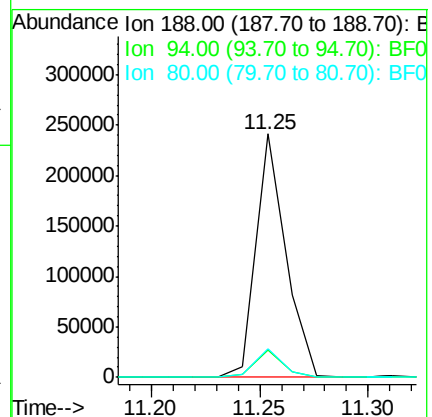
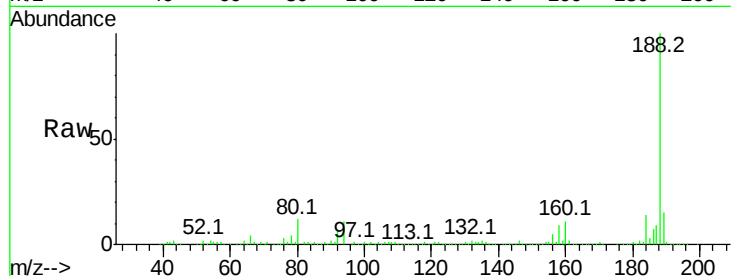
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 802
Delta R.T. -0.05 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.3	5.4	8.0#
80	12.0	5.5	8.3#

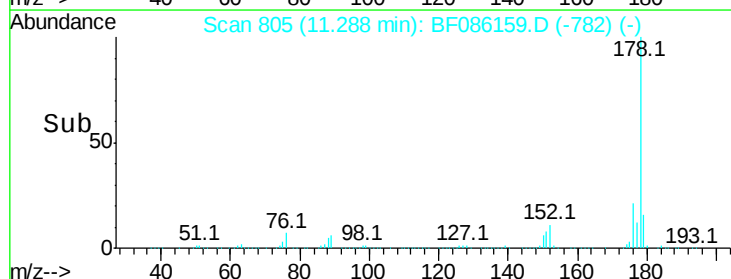
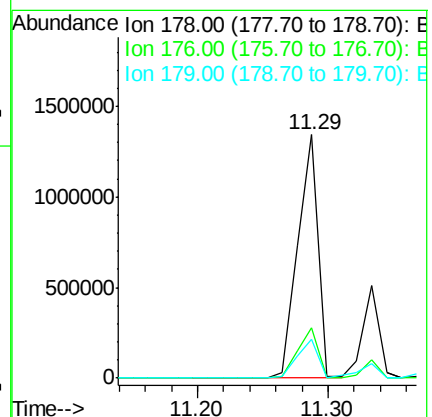
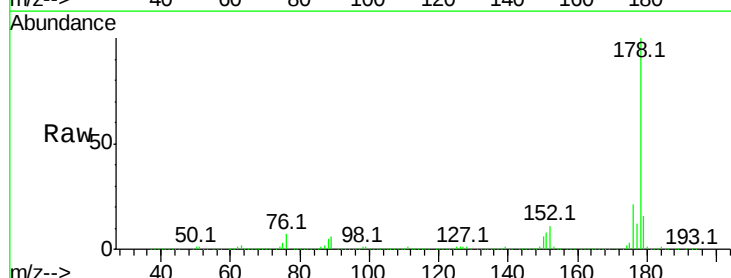
Manual Integrations
APPROVED

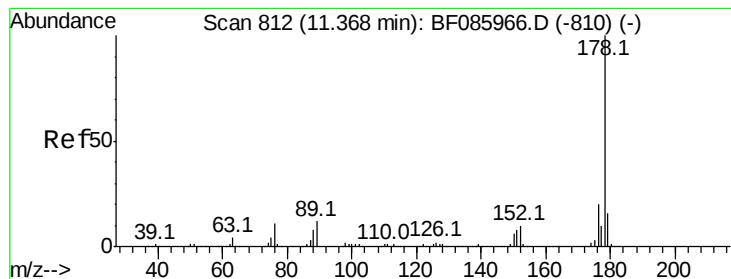
Sohil
4/8/2016 6:09:39 PM



#70
Phenanthrene
Concen: 116.17 ng
RT: 11.29 min Scan# 805
Delta R.T. -0.03 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.7	16.3	24.5
179	15.8	12.6	18.8





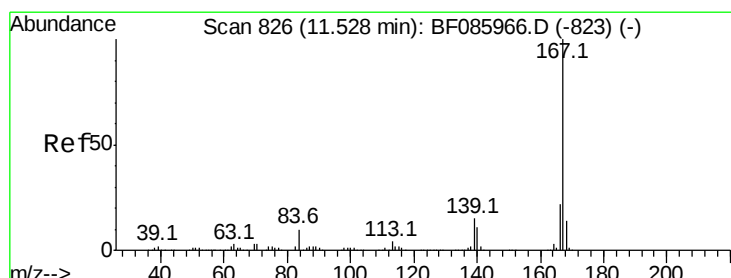
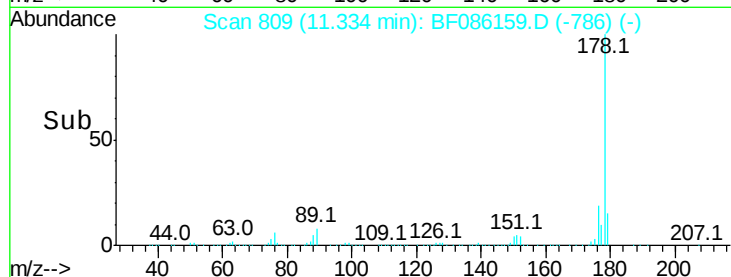
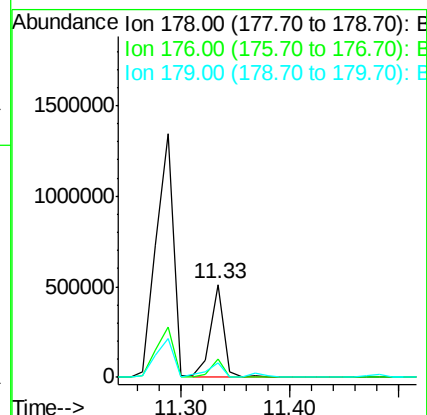
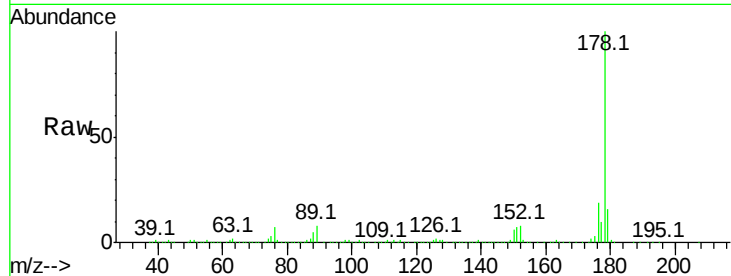
#71
 Anthracene
 Concen: 34.23 ng
 RT: 11.33 min Scan# 809
 Delta R.T. -0.03 min
 Lab File: BF086159.D
 Acq: 8 Apr 2016 5:06

Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB1-0-6.0

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	15.6	13.0	19.4

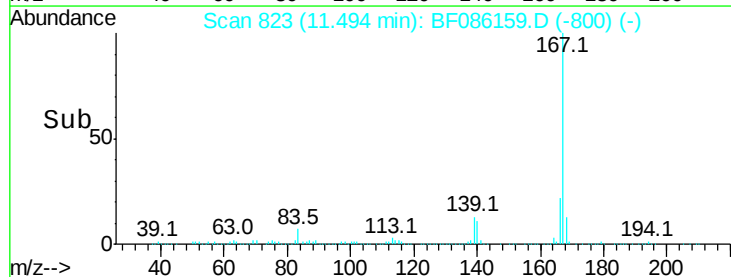
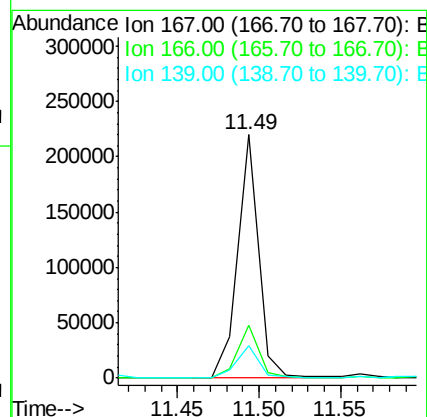
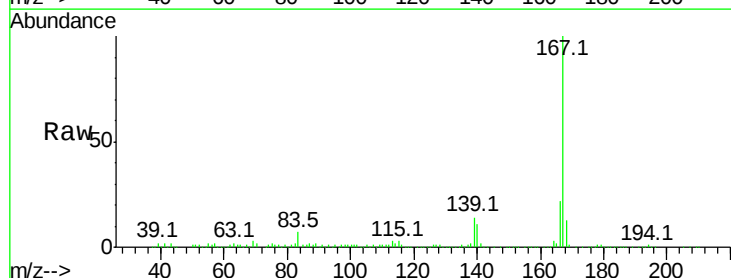
Manual Integrations
 APPROVED

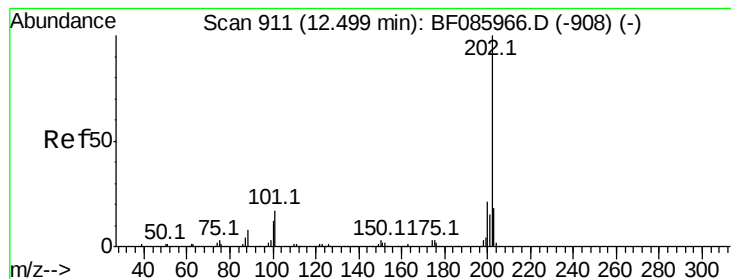
Sohil
 4/8/2016 6:09:39 PM



#72
 Carbazole
 Concen: 17.09 ng
 RT: 11.49 min Scan# 823
 Delta R.T. -0.03 min
 Lab File: BF086159.D
 Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.8	26.8
139	13.5	11.6	17.4





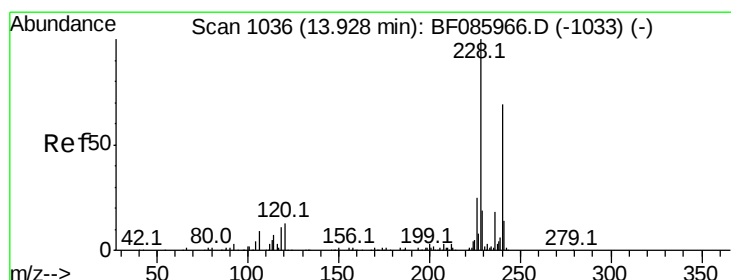
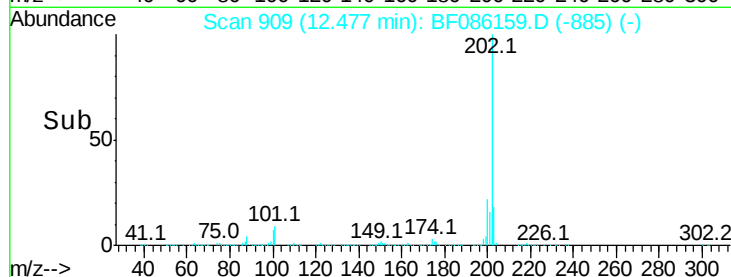
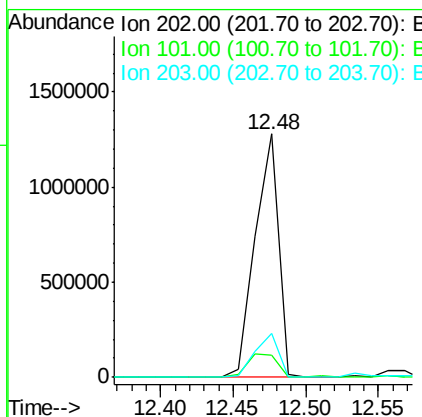
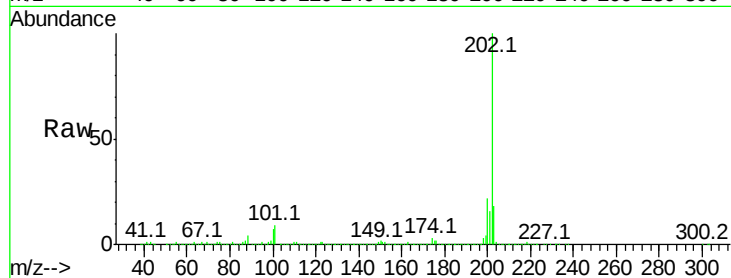
#74
Fluoranthene
 Concen: 109.47 ng
 RT: 12.48 min Scan# 909
 Delta R.T. -0.02 min
 Lab File: BF086159.D
 Acq: 8 Apr 2016 5:06

Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB1-0-6.0

Tot Ion:	202	Resp:	1428396
Ion	Ratio	Lower	Upper
202	100		
101	9.3	0.0	36.6
203	18.0	0.0	38.1

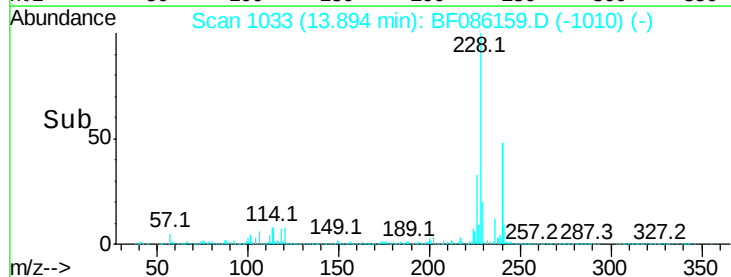
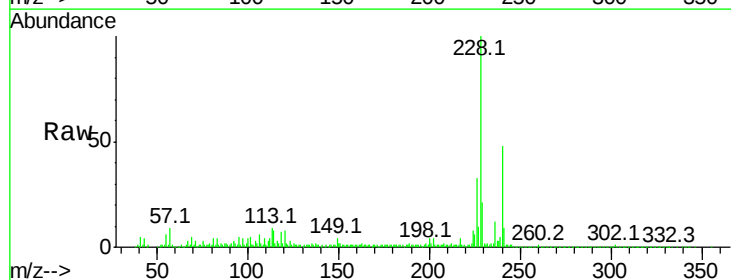
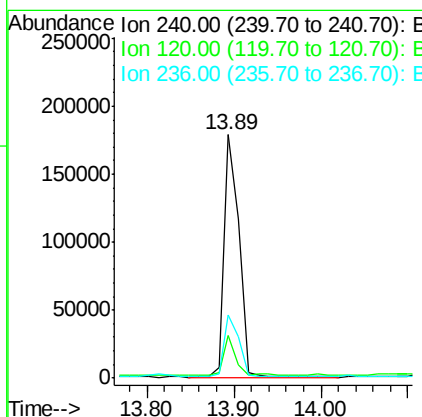
Manual Integrations
 APPROVED

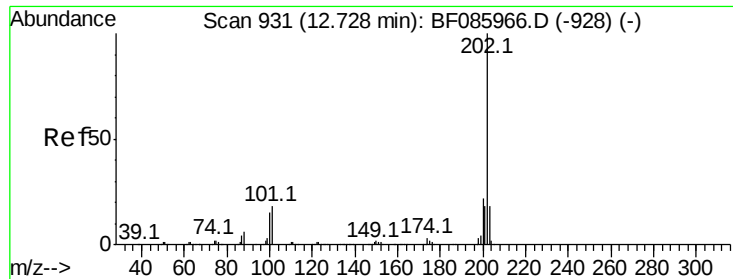
Sohil
 4/8/2016 6:09:39 PM



#75
Chrysene-d12
 Concen: 20.00 ng
 RT: 13.89 min Scan# 1033
 Delta R.T. -0.03 min
 Lab File: BF086159.D
 Acq: 8 Apr 2016 5:06

Tgt Ion:	240	Resp:	213149
Ion	Ratio	Lower	Upper
240	100		
120	17.6	13.8	20.8
236	26.1	20.6	30.8





#77

Pvrene

Concen: 81.44 ng

RT: 12.71 min Scan# 929

Delta R.T. -0.02 min

Lab File: BF086159.D

Acq: 8 Apr 2016 5:06

Instrument :

BNA_F

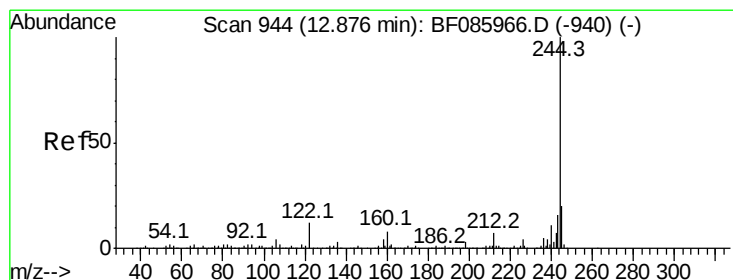
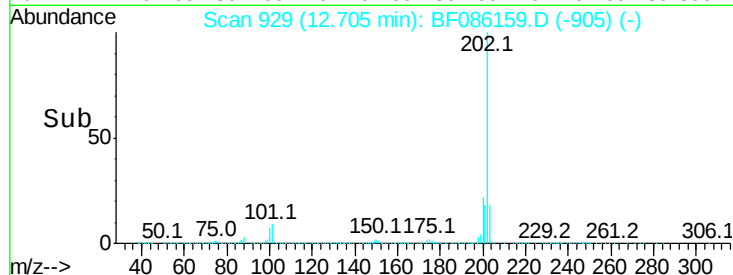
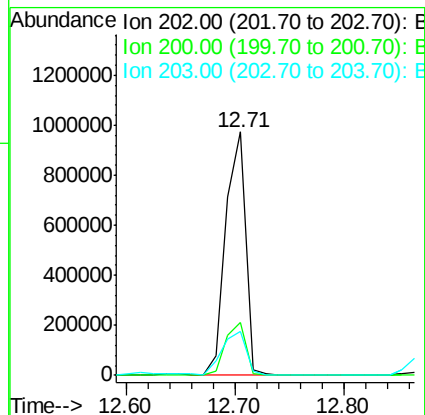
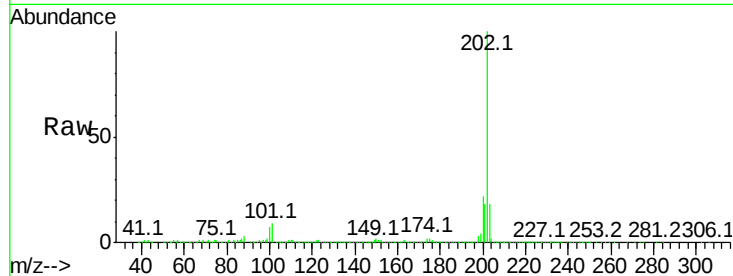
ClientSampleId :

PEDBR-SB1-0-6.0

Tot Ion:	202	Resp:	1223260
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.6	26.4
203	18.0	14.0	21.0

Manual Integrations
APPROVED

Sohil
4/8/2016 6:09:39 PM



#78

Terphenyl-d14

Concen: 52.44 ng

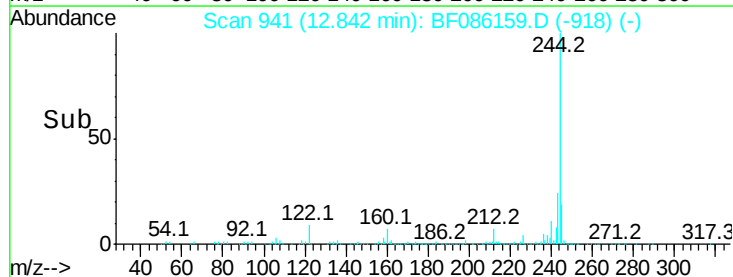
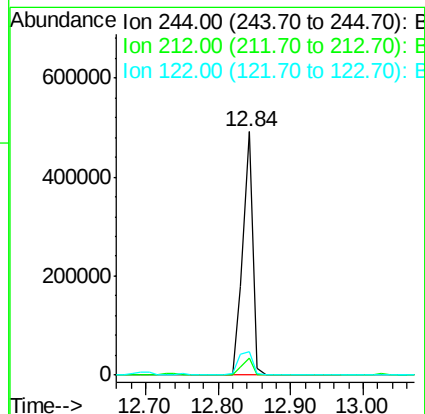
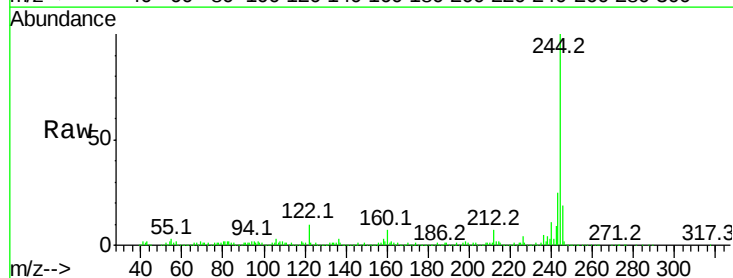
RT: 12.84 min Scan# 941

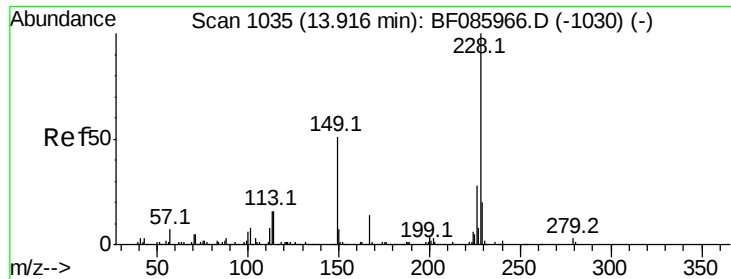
Delta R.T. -0.03 min

Lab File: BF086159.D

Acq: 8 Apr 2016 5:06

Tgt Ion:	244	Resp:	475478
Ion Ratio	Lower	Upper	
244	100		
212	7.0	6.1	9.1
122	9.6	10.2	15.4





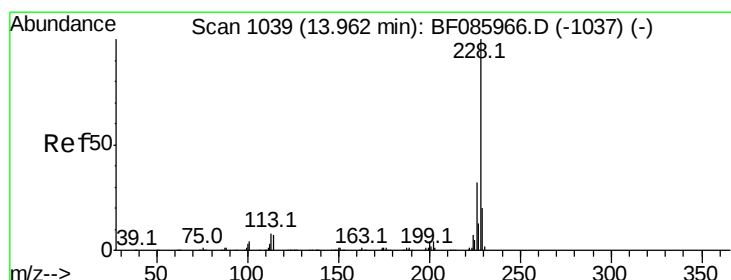
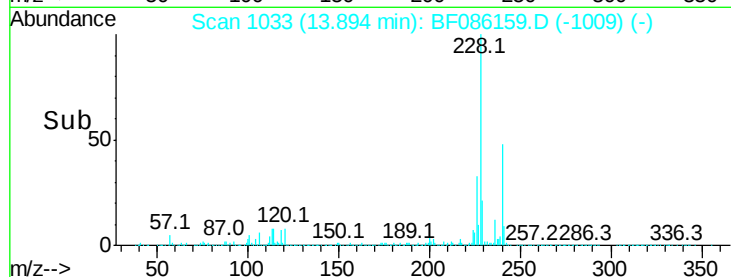
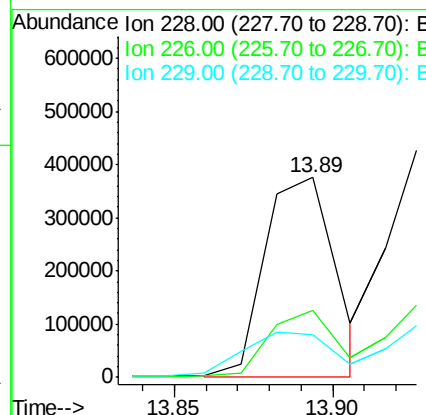
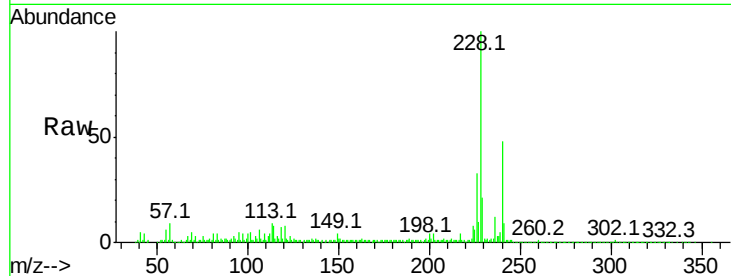
#80
Benzo(a)anthracene
Concen: 46.32 ng m
RT: 13.89 min Scan# 1033
Delta R.T. -0.02 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.5	22.1	33.1#
229	21.1	16.2	24.4

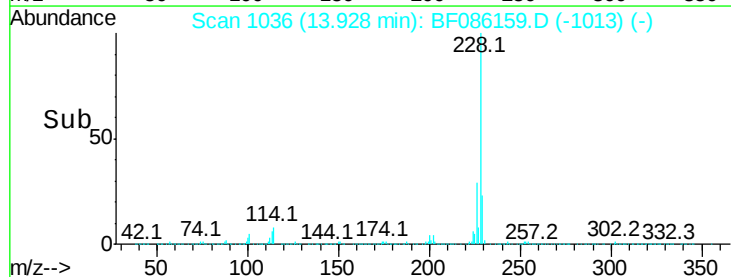
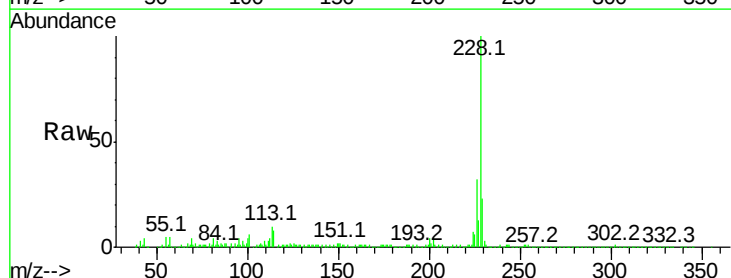
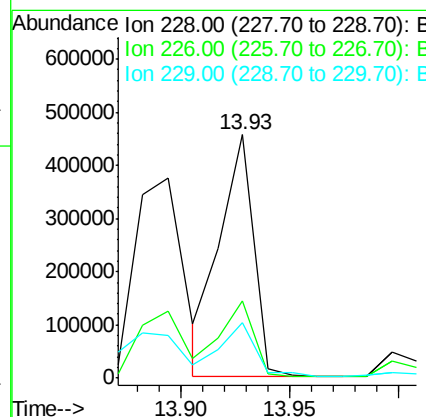
Manual Integrations
APPROVED

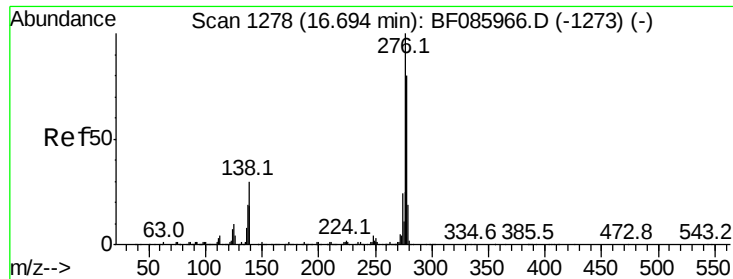
Sohil
4/8/2016 6:09:39 PM



#82
Chrysene
Concen: 40.57 ng
RT: 13.93 min Scan# 1036
Delta R.T. -0.03 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.0	37.6
229	22.8	15.7	23.5





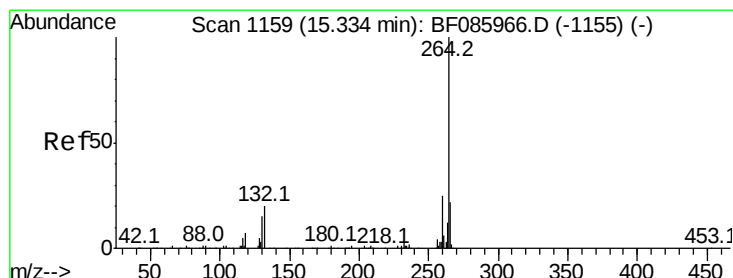
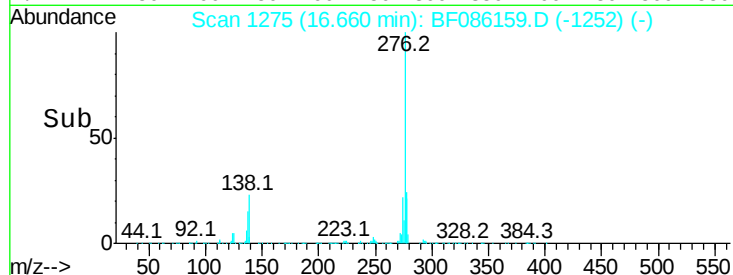
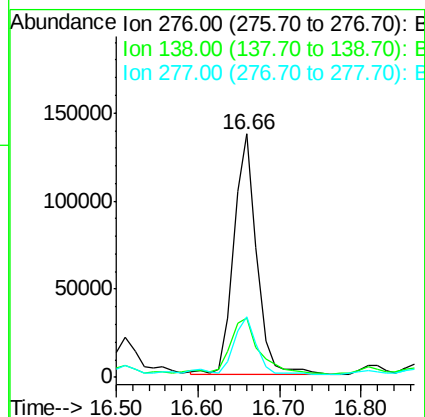
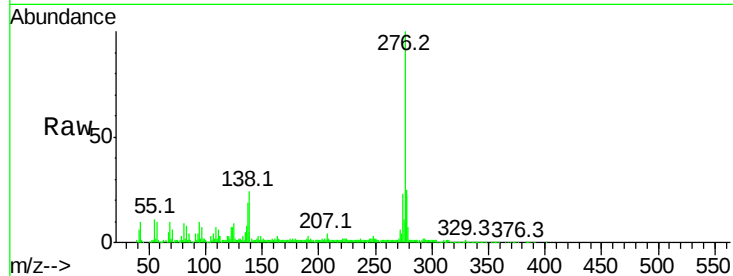
#85
Indeno(1,2,3-cd)pyrene
Concen: 27.03 ng
RT: 16.66 min Scan# 1275
Delta R.T. -0.03 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Tot Ion:	276	Resp:	265424
Ion Ratio	Lower	Upper	
276	100		
138	30.1	24.2	36.4
277	26.0	20.0	30.0

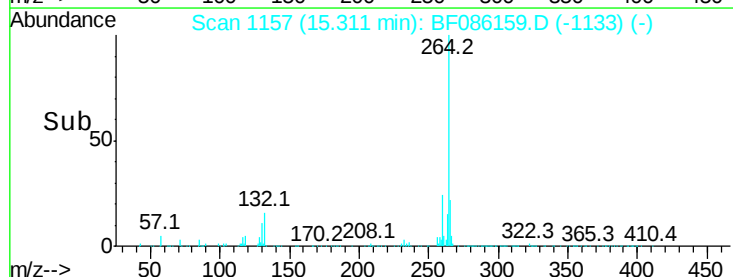
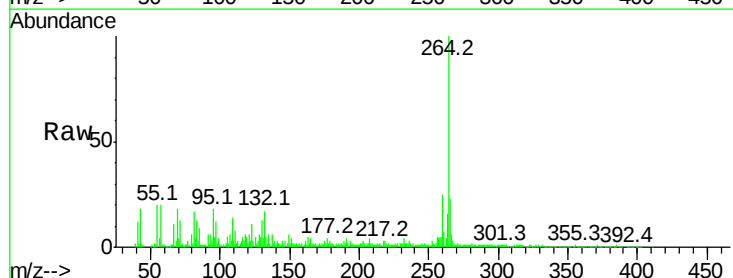
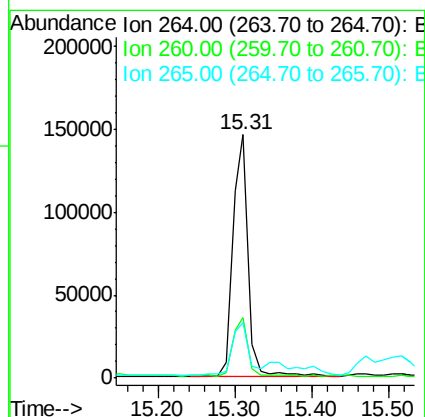
Manual Integrations
APPROVED

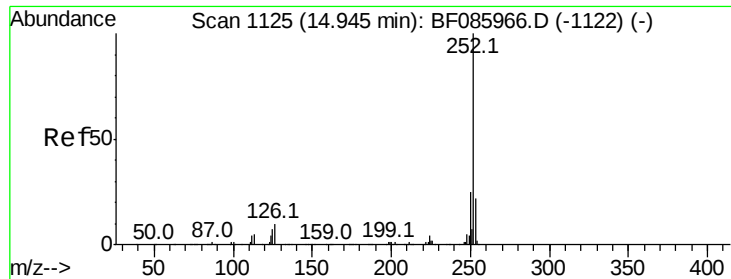
Sohil
4/8/2016 6:09:39 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.31 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Tgt Ion:	264	Resp:	205936
Ion Ratio	Lower	Upper	
264	100		
260	25.0	19.4	29.2
265	22.8	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 49.09 ng m

RT: 14.91 min Scan# 1122

Delta R.T. -0.03 min

Lab File: BF086159.D

Acq: 8 Apr 2016 5:06

Instrument :

BNA_F

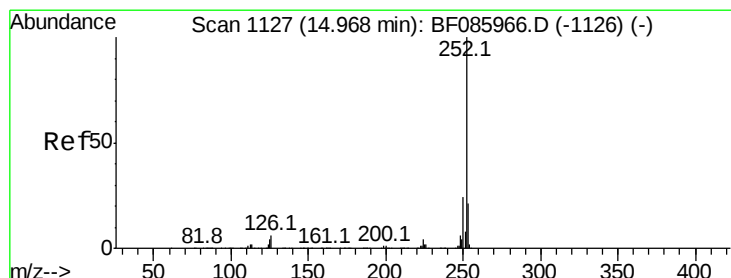
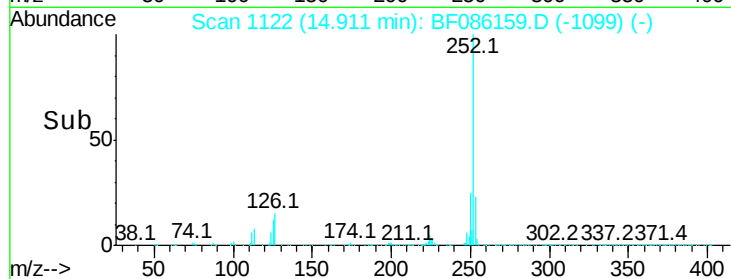
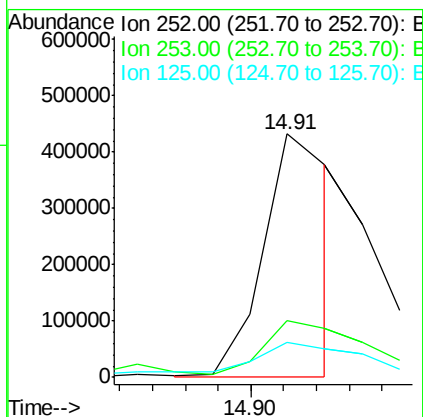
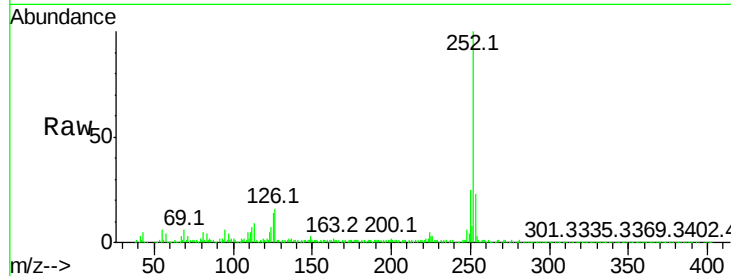
ClientSampleId :

PEDBR-SB1-0-6.0

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	14.3	10.3	15.5

Manual Integrations
APPROVED

Sohil
4/8/2016 6:09:39 PM



#88

Benzo(k)fluoranthene

Concen: 23.97 ng m

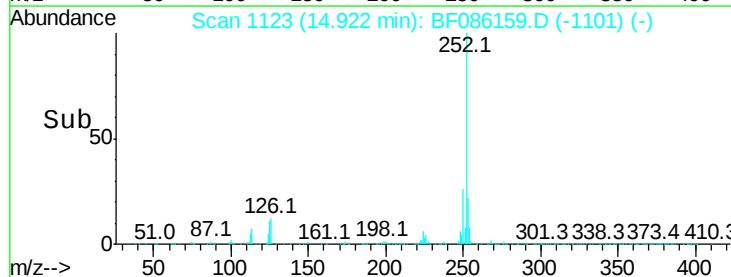
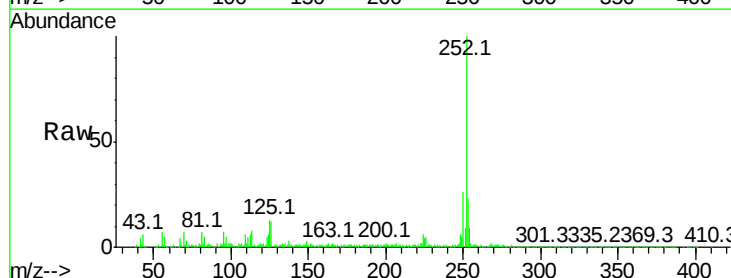
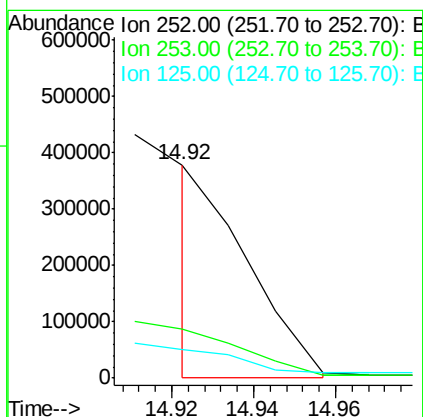
RT: 14.92 min Scan# 1123

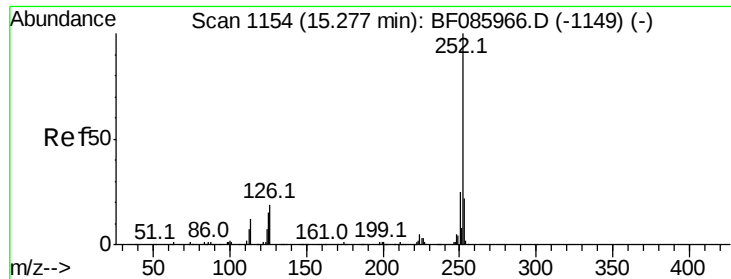
Delta R.T. -0.05 min

Lab File: BF086159.D

Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	13.4	7.7	11.5





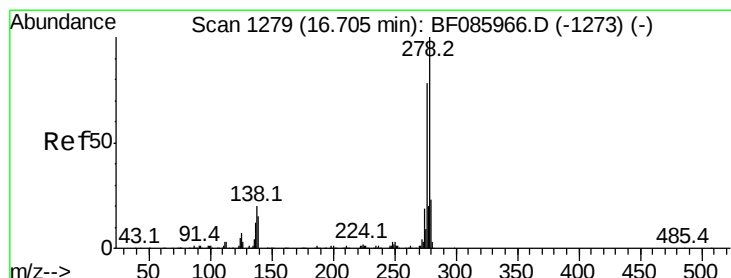
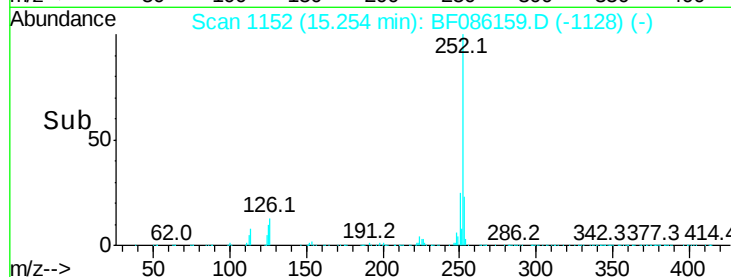
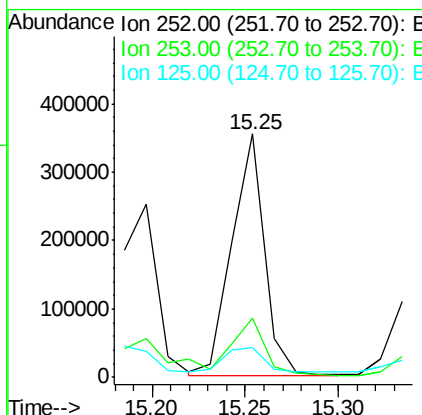
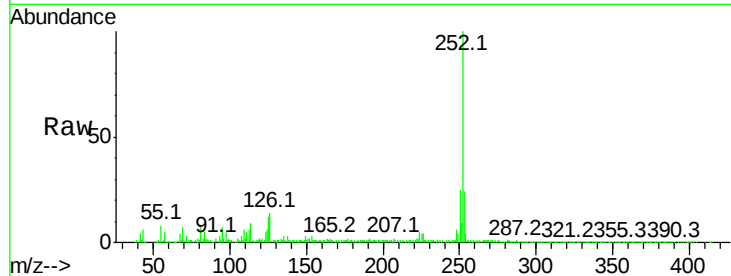
#89
Benzo(a)pyrene
Concen: 37.61 ng
RT: 15.25 min Scan# 1152
Delta R.T. -0.02 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB1-0-6.0

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.4	26.0
125	12.3	10.3	15.5

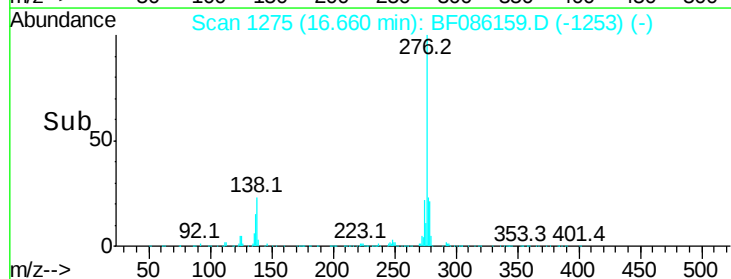
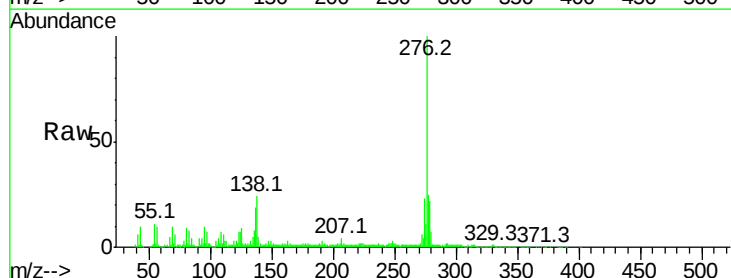
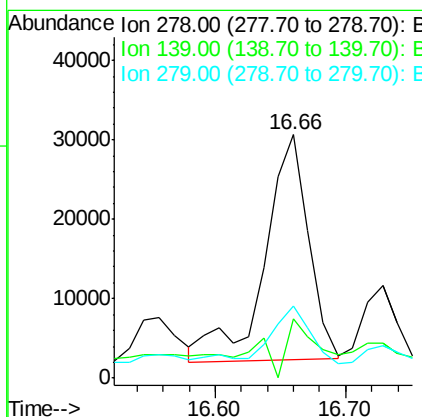
Manual Integrations
APPROVED

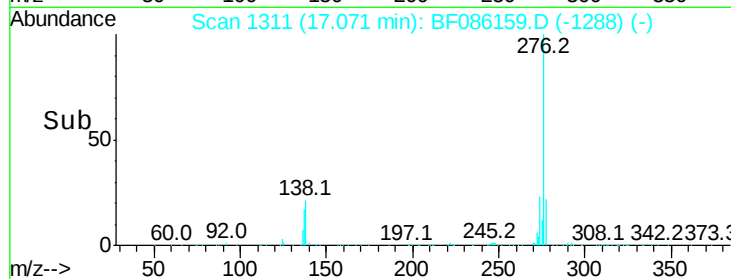
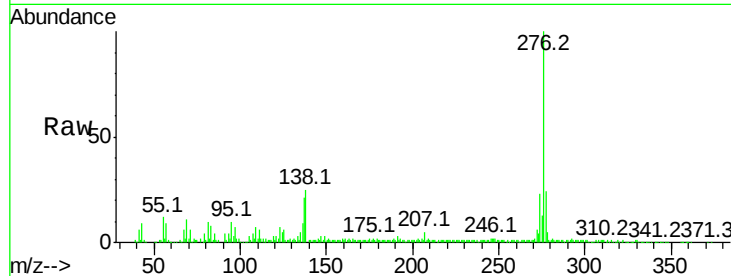
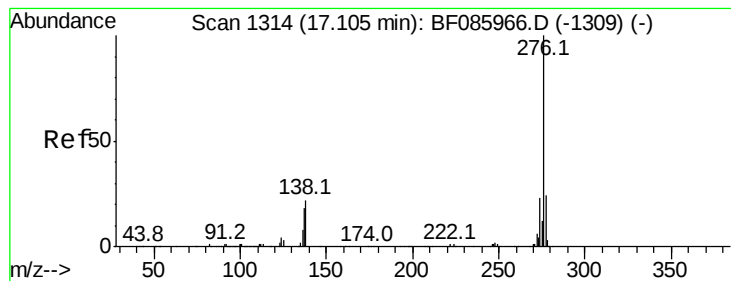
Sohil
4/8/2016 6:09:39 PM



#90
Dibenzo(a,h)anthracene
Concen: 7.25 ng
RT: 16.66 min Scan# 1275
Delta R.T. -0.05 min
Lab File: BF086159.D
Acq: 8 Apr 2016 5:06

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.5	14.4	21.6#
279	29.8	19.1	28.7#





#91

Benzo(a,h,i)perylene

Concen: 27.74 ng

RT: 17.07 min Scan# 1311

Delta R.T. -0.03 min

Lab File: BF086159.D

Acq: 8 Apr 2016 5:06

Tot Ion:	276	Resp:	247947
Ion Ratio	Lower	Upper	
276	100		
277	23.9	18.8	28.2
138	24.7	22.6	34.0

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB1-0-6.0

Manual Integrations
APPROVED

Sohil
4/8/2016 6:09:39 PM

